

FIG. 1A

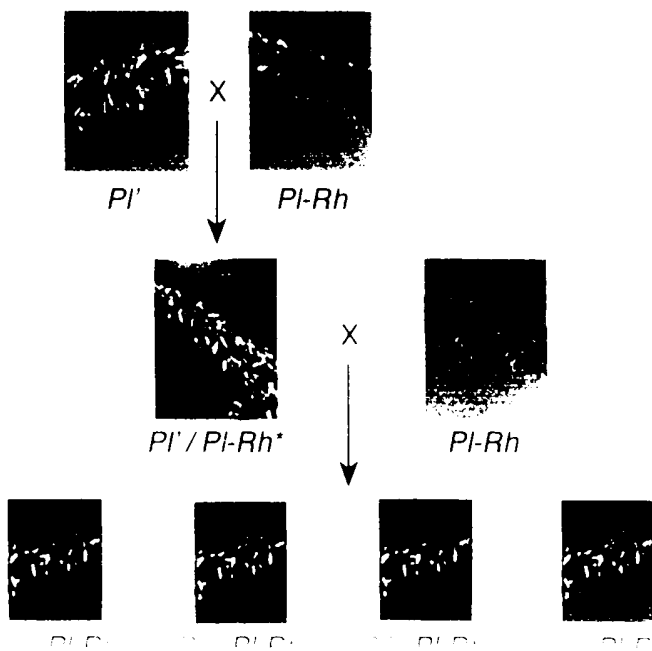
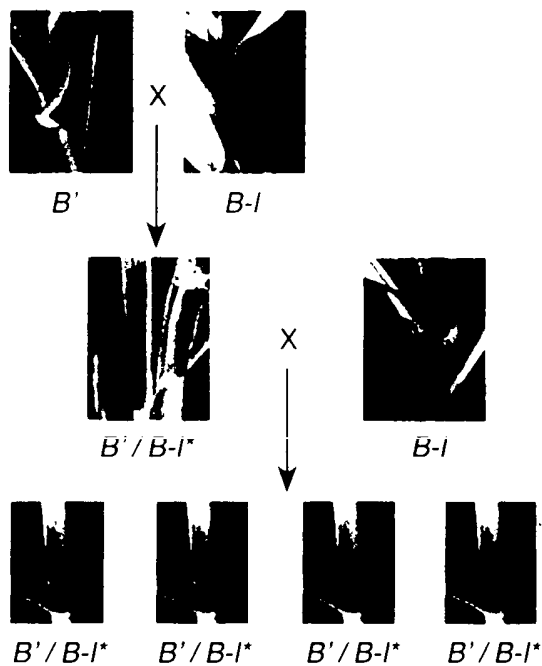
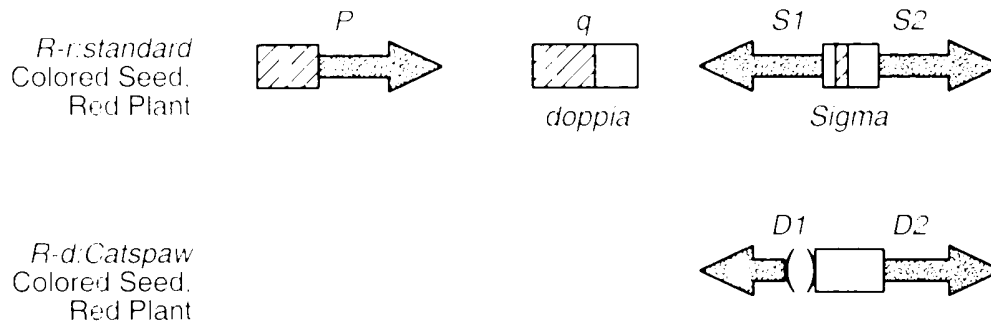


FIG. 1B

Paramutable



Paramutagenic

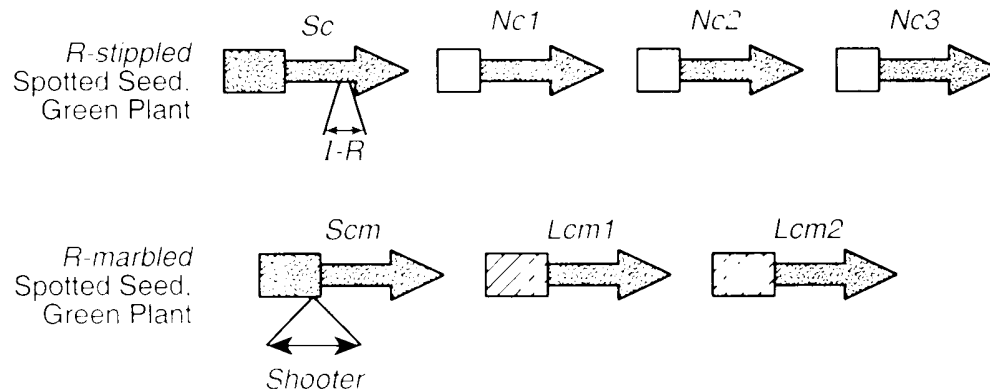


FIG. 2A

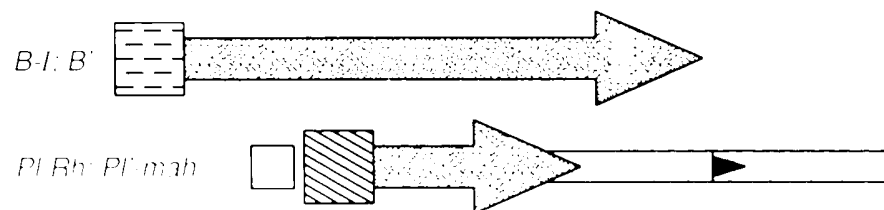
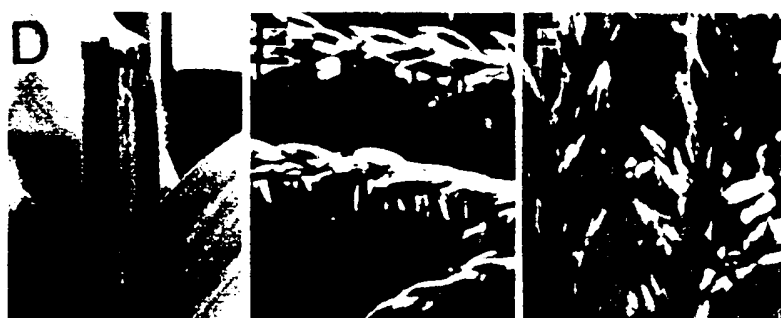
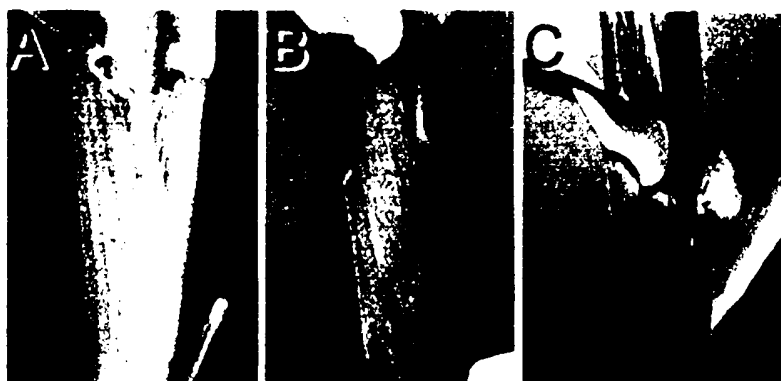


FIG. 2B

FIG._3A FIG._3B FIG._3C

B' Mop1 / mop1-1 B' mop1-1 / mop1-1 B-l Mop1 / Mop1



*B' Sectors in a
B' mop1-1 Plant*

Pl' Mop1 / -

Pl' mop1-1 / mop1-1

FIG._3D FIG._3E FIG._3F

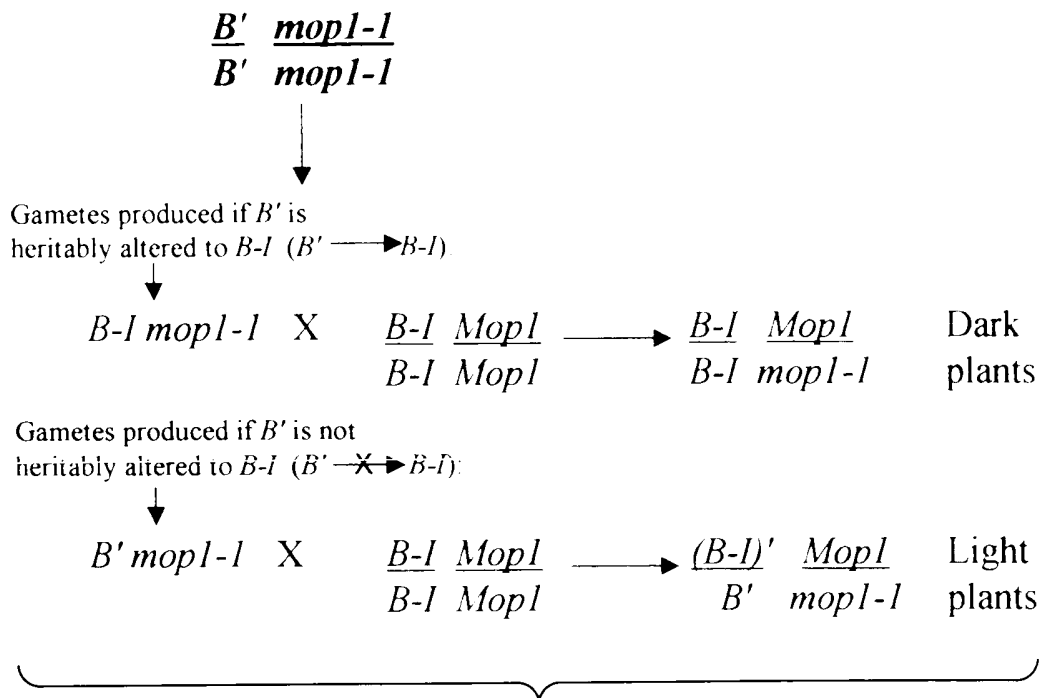


FIG._4A

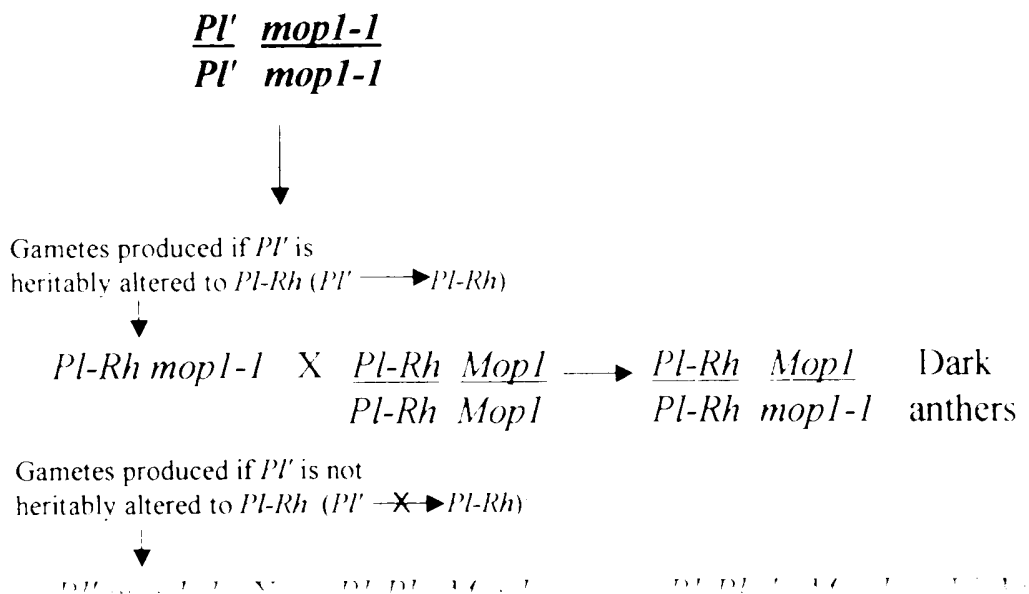
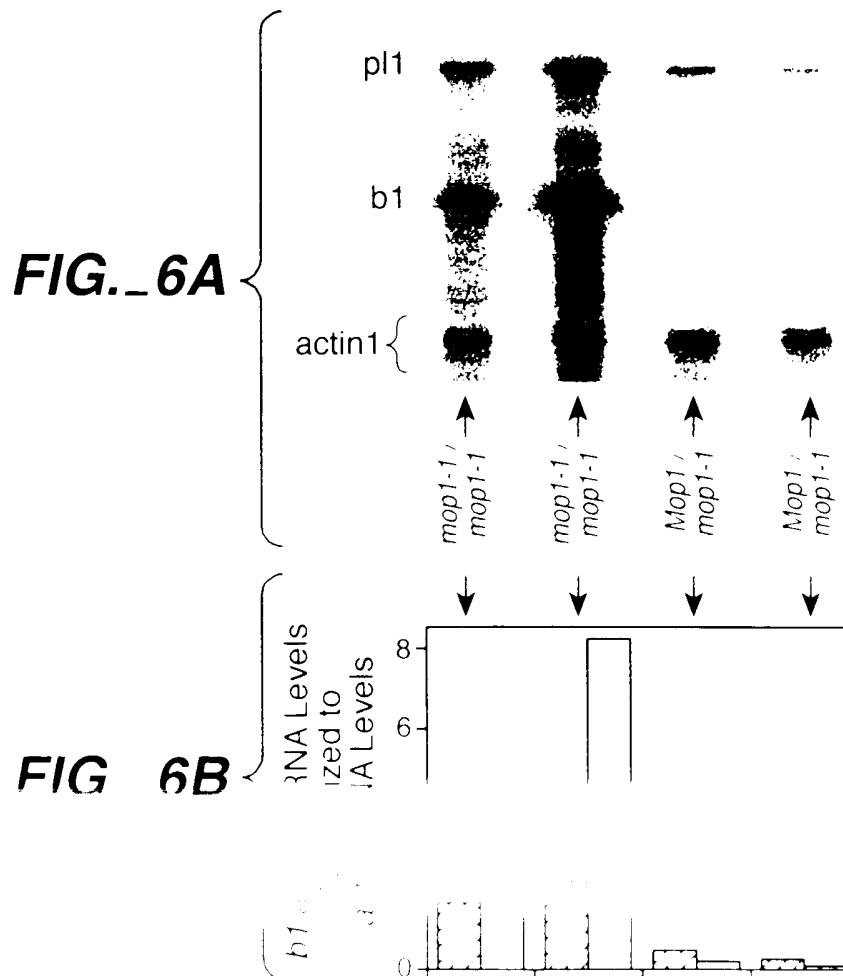
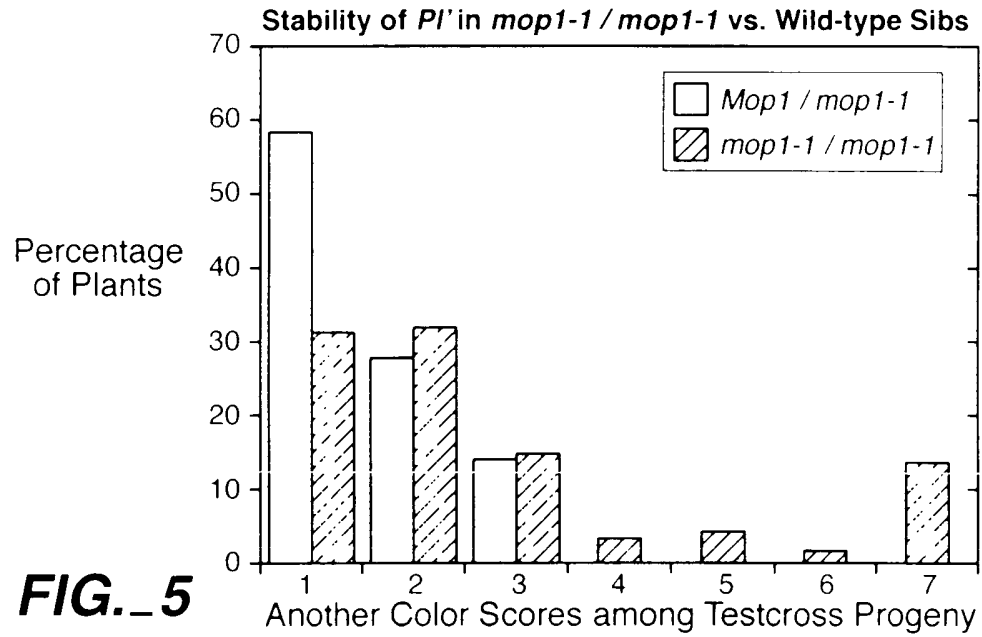


FIG._4B



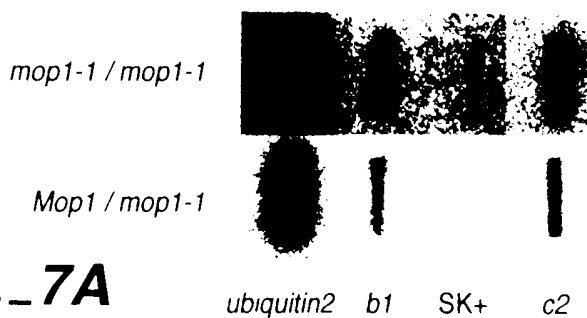


FIG._7A

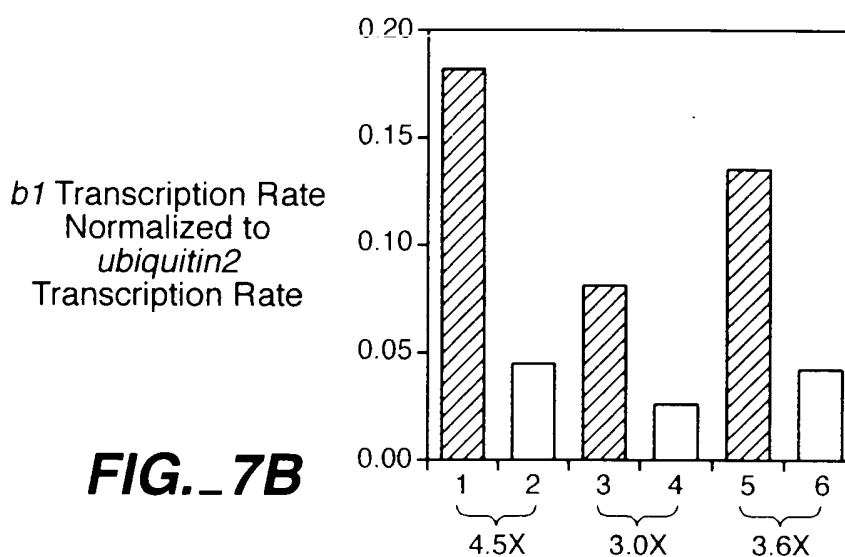


FIG._7B

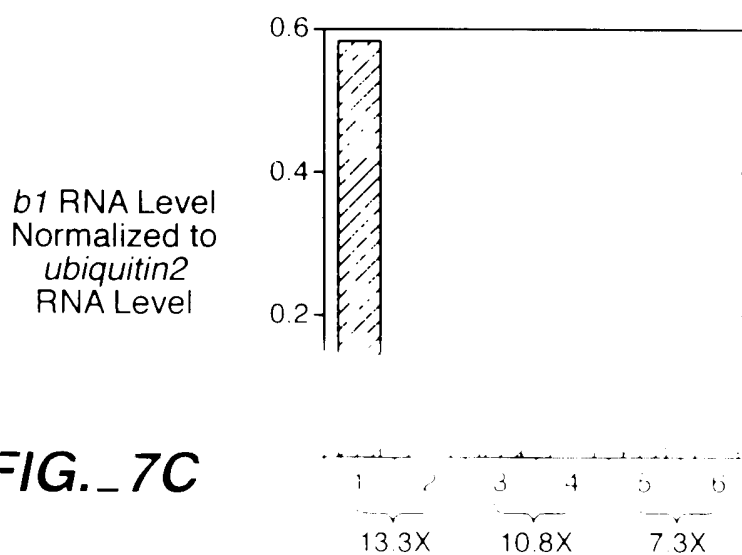


FIG._7C

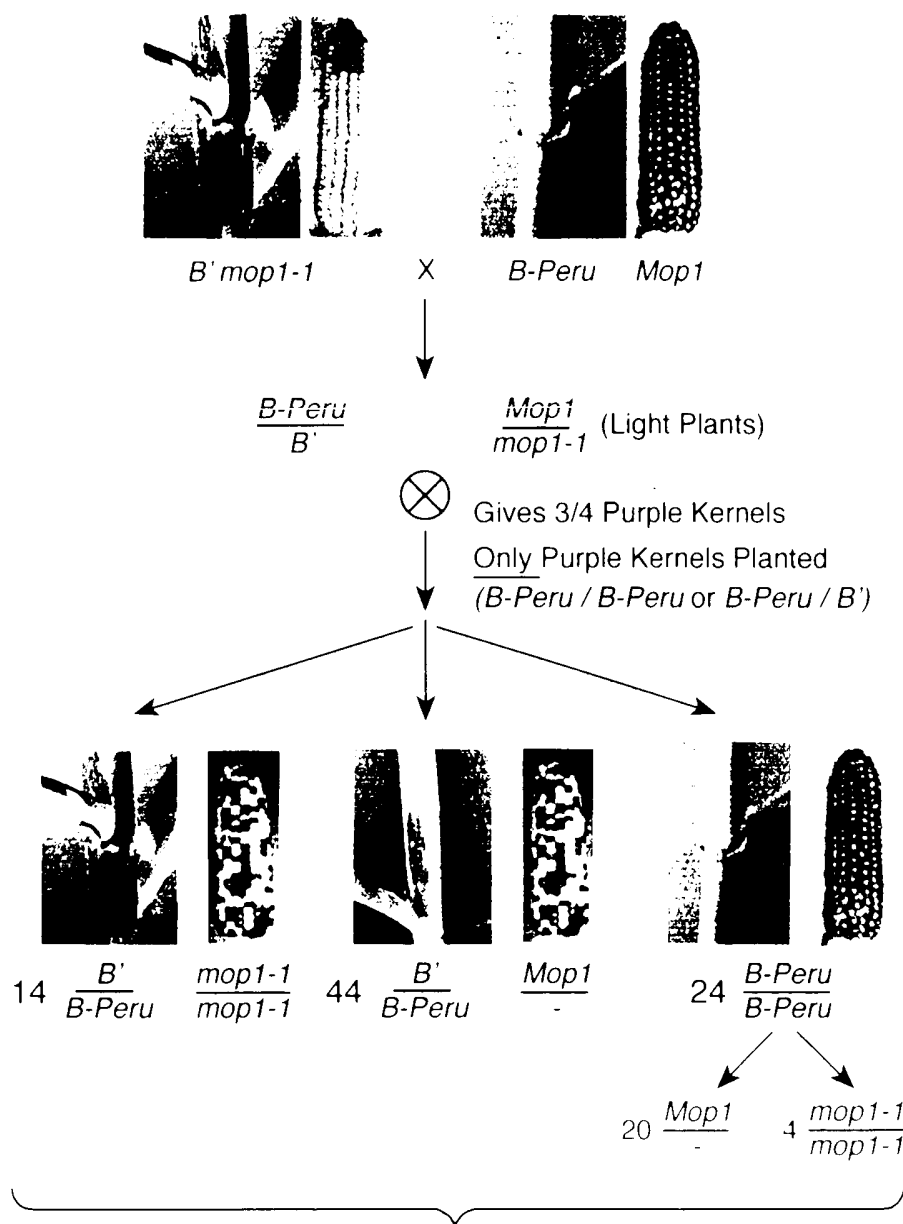
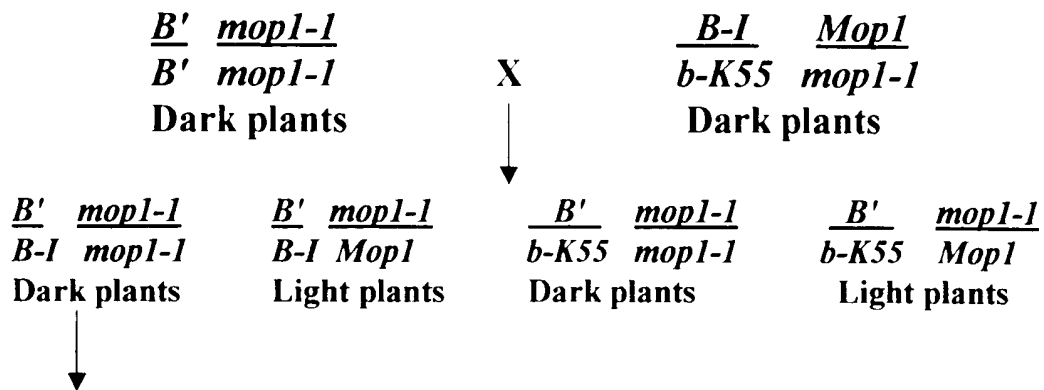


FIG. 8



Testcross (by *B-Peru/B-I Mop1/Mop1* tester--diagram shows only *B-Peru* gametes of tester)

Gametes produced if paramutation
 is prevented ($B-I \nrightarrow B'$):

50% $B' mop1-1$ X *B-Peru Mop1* → $\frac{B'}{B-Peru} \frac{mop1-1}{Mop1}$ Light plants

50% $B-I mop1-1$ X *B-Peru Mop1* → $\frac{B-I}{B-Peru} \frac{mop1-1}{Mop1}$ Dark plants

Gametes produced if paramutation
 occurred ($B-I \rightarrow B'$):

100% $B' mop1-1$ X *B-Peru Mop1* → $\frac{B'}{B-Peru} \frac{mop1-1}{Mop1}$ Light plants

FIG._9

$\frac{R-st}{r-g} \frac{B-bar}{B'} \frac{pl-sr}{Pl'} \frac{Mop1}{mop1-1}$
 \times
 $\frac{R-d}{r-g} \frac{B-bar}{B'} \frac{pl-sr}{Pl'} \frac{Mop1}{mop1-1}$



Four genotypes of interest among $R-d - Pl'$ - progeny

$\frac{3}{16}$	$\frac{R-d}{r-g}$	$\frac{Mop1}{-}$	Light plant
$\frac{3}{16}$	$\frac{R-d}{R-st}$	$\frac{Mop1}{-}$	Light plant
$\frac{1}{16}$	$\frac{R-d}{r-g}$	$\frac{mop1-1}{mop1-1}$	Dark plant
$\frac{1}{16}$	$\frac{R-d}{R-st}$	$\frac{mop1-1}{mop1-1}$	Dark plant

FIG. 10A

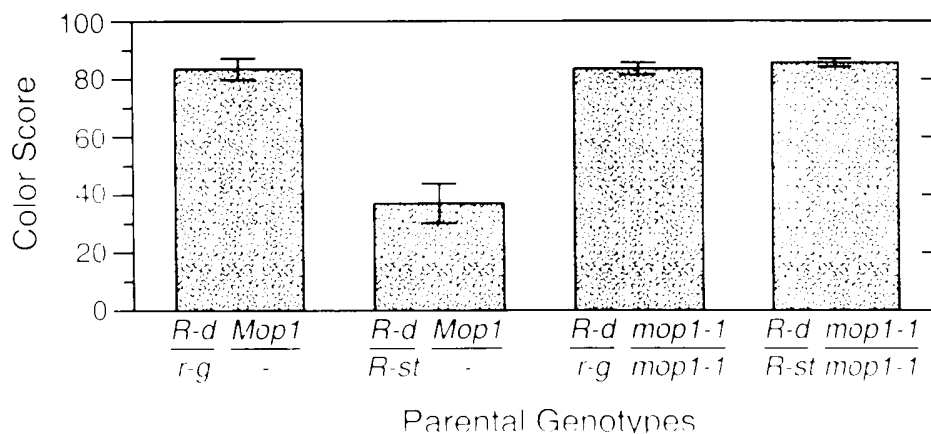


FIG. 10B



FIG._13A

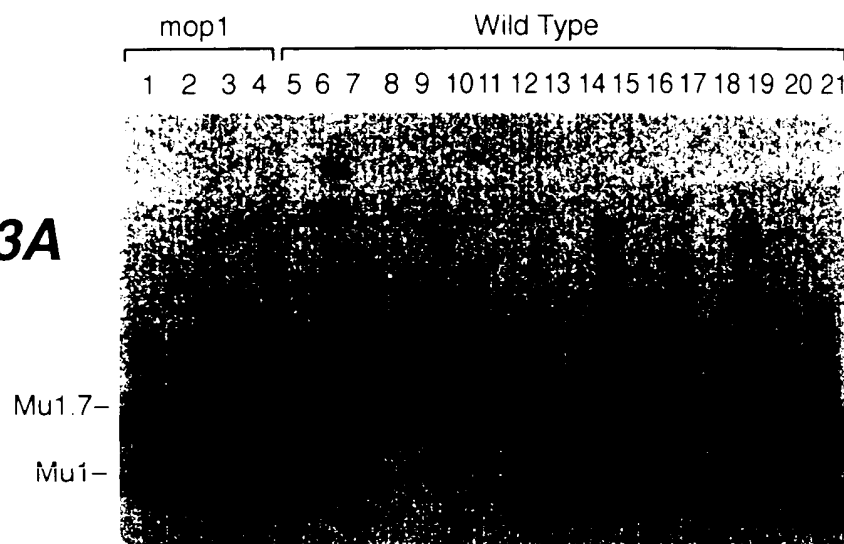


FIG._13B

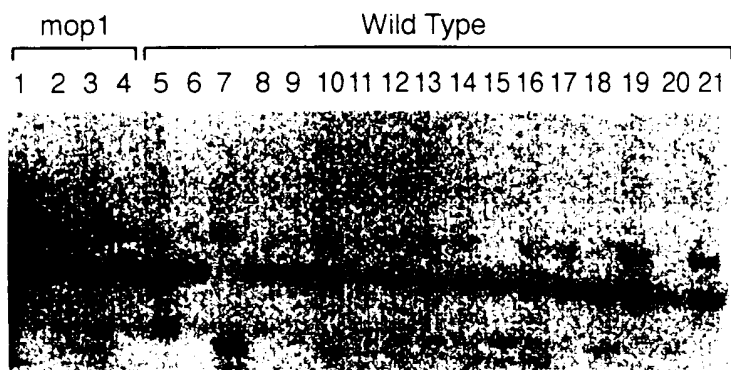
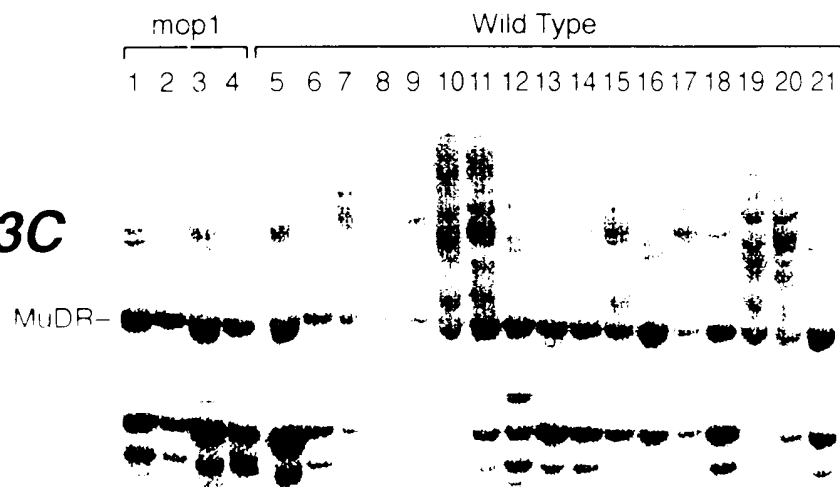


FIG._13C



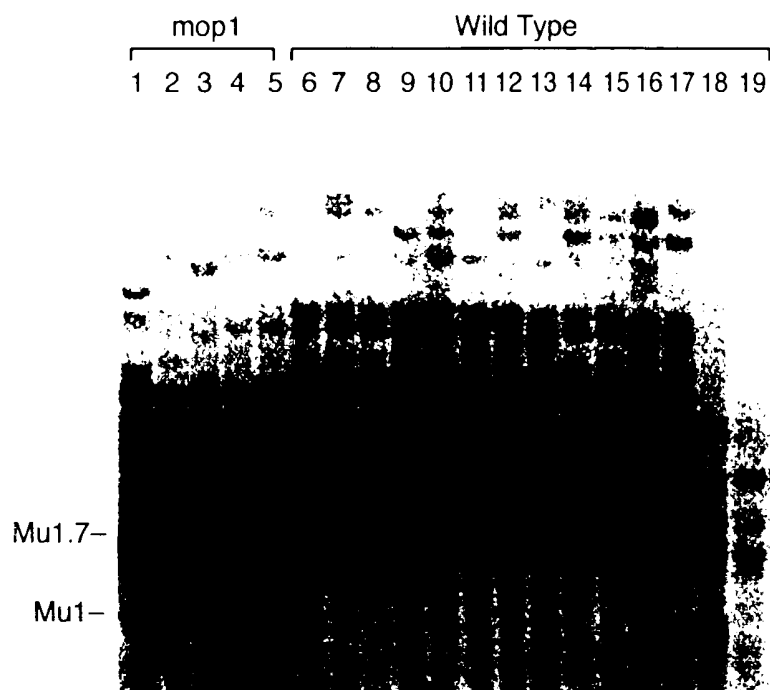


FIG. 14A

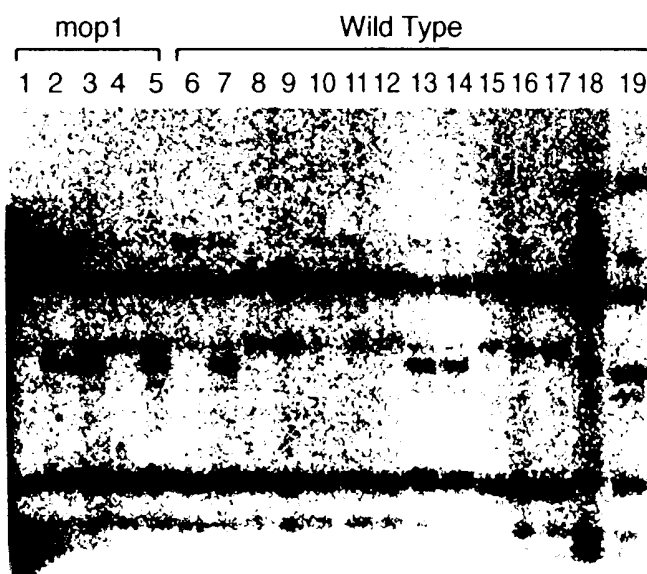


FIG. 14B

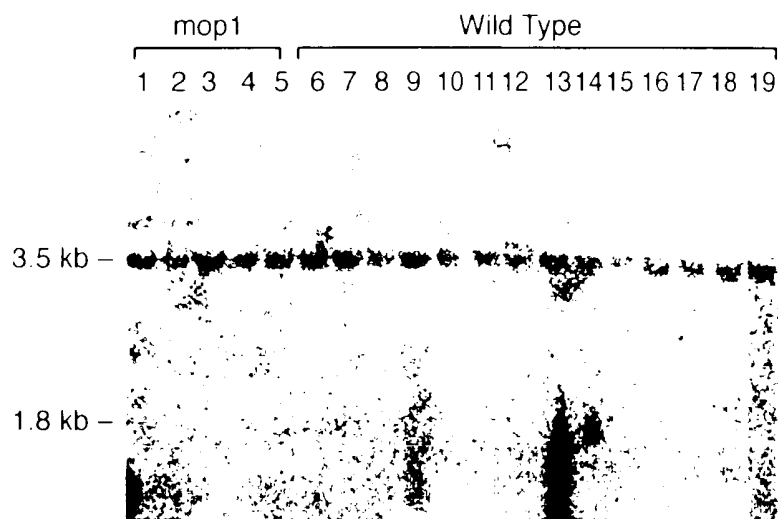


FIG. 14C

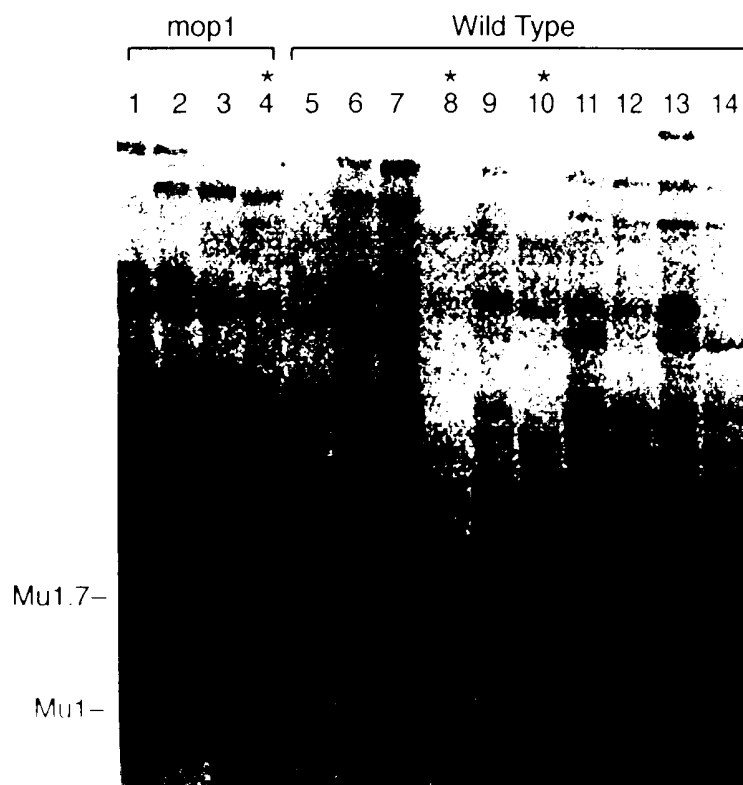


FIG. 14D

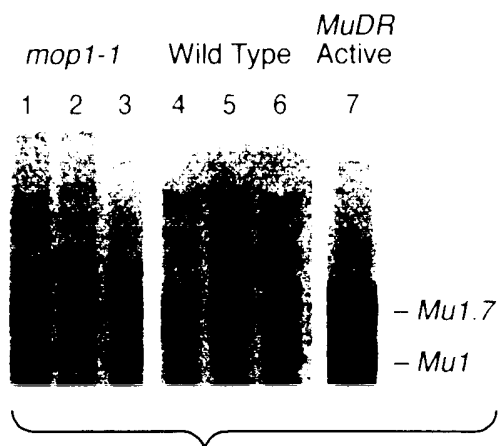


FIG. 15A

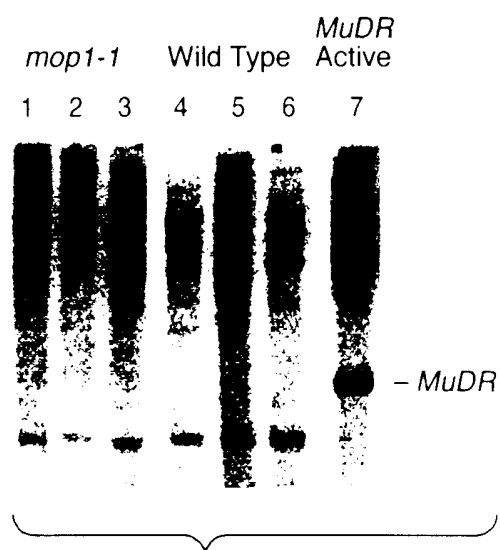


FIG. 15B

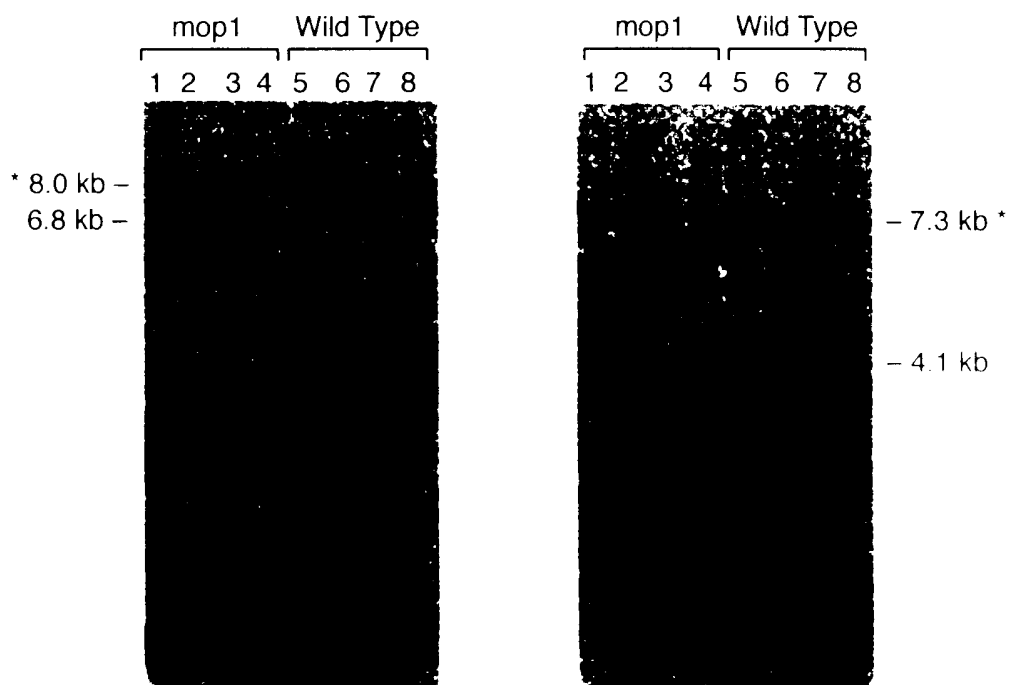
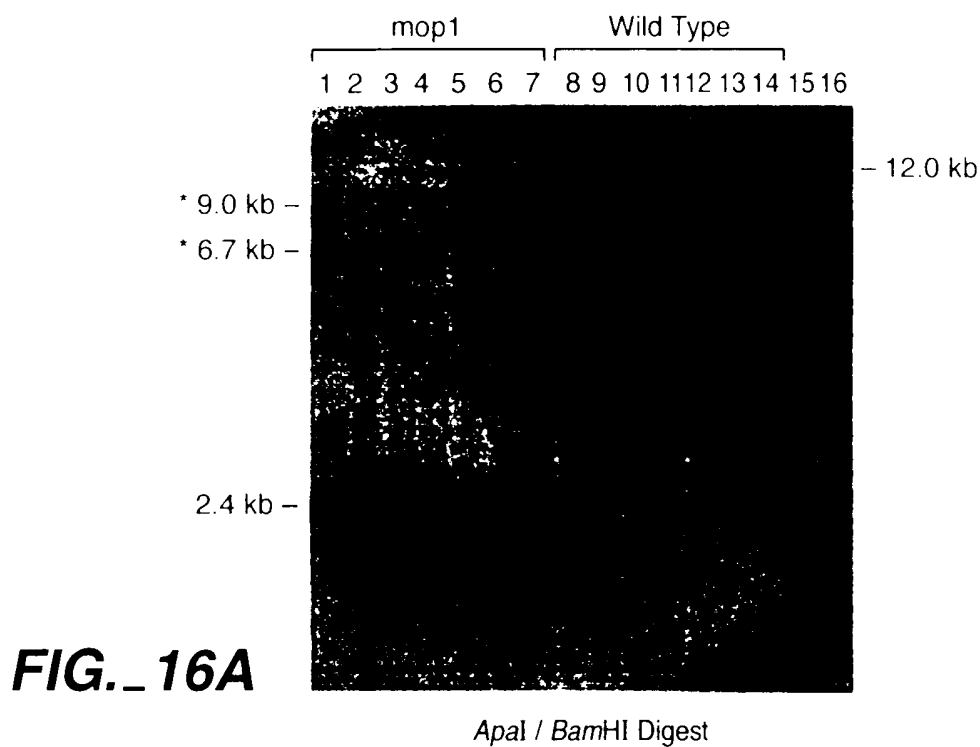


FIG. 16B

FIG. 16C

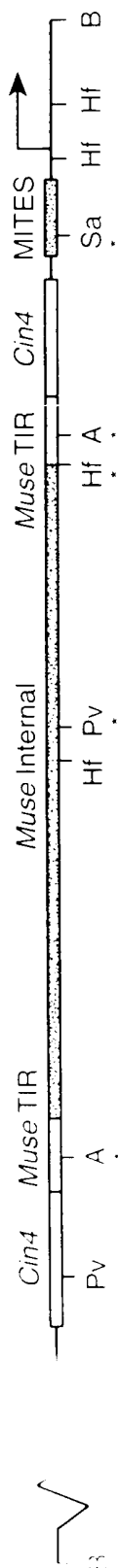


FIG._ 16D

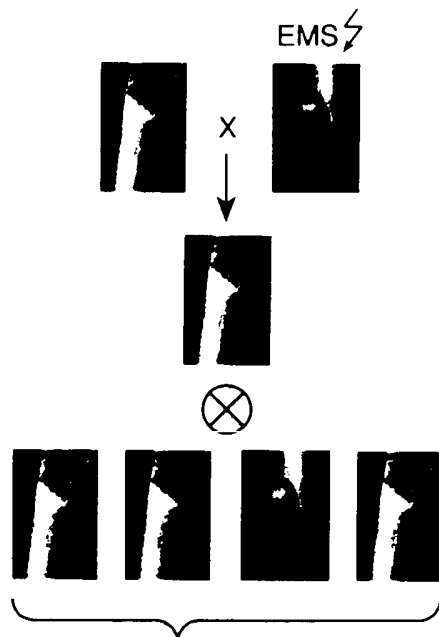


FIG. 17

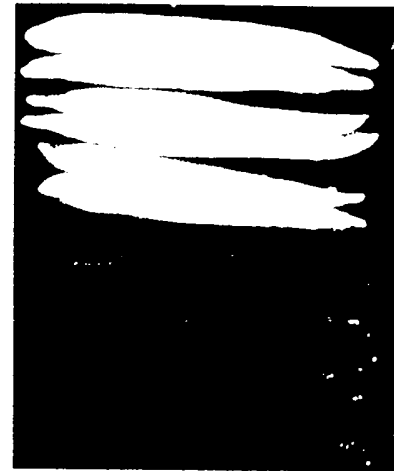


FIG. 18A



FIG. 18B

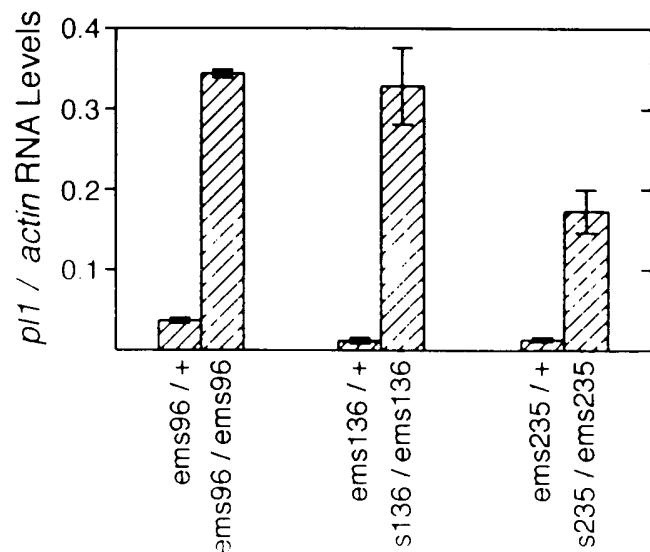
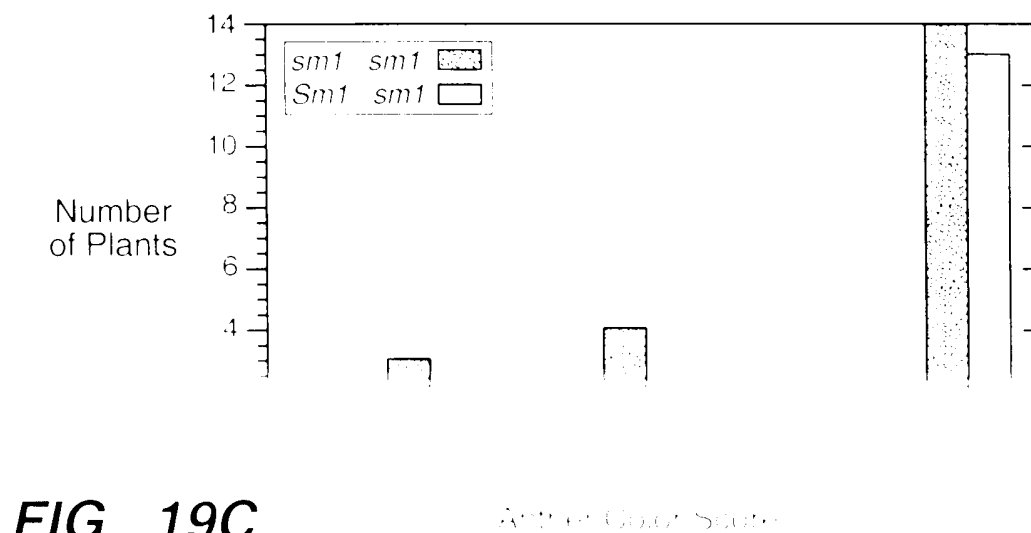
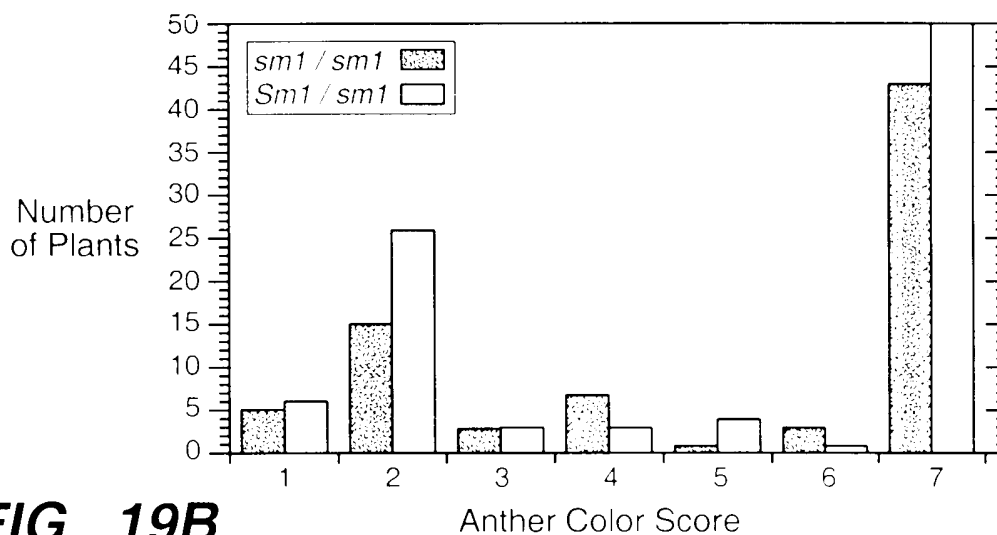
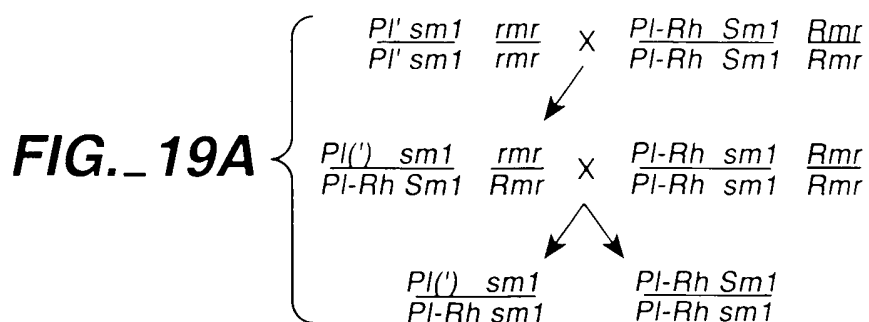


FIG. 18C



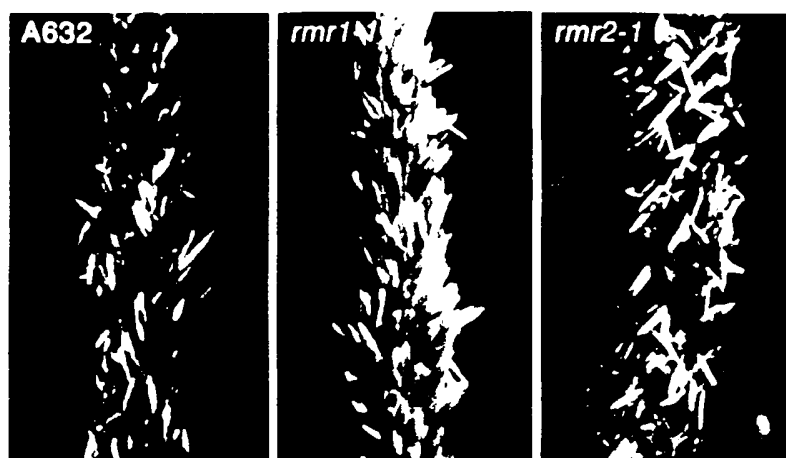


FIG._20

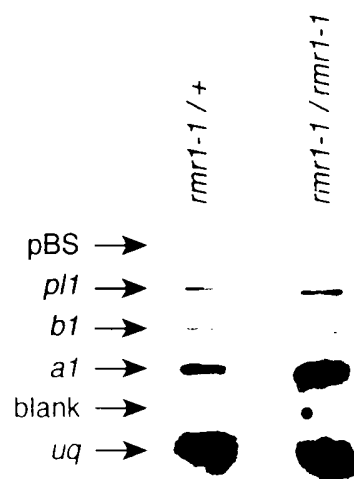


FIG._21A

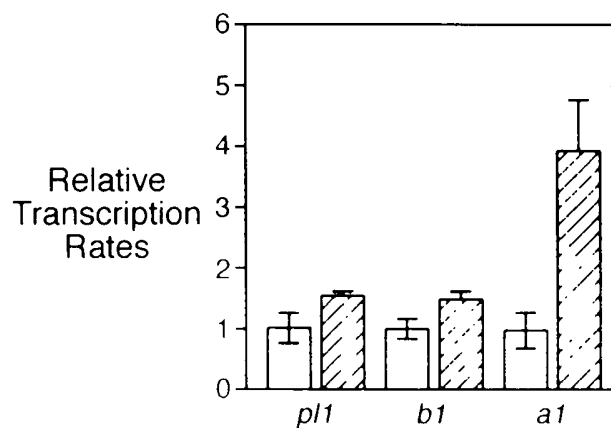


FIG._21B

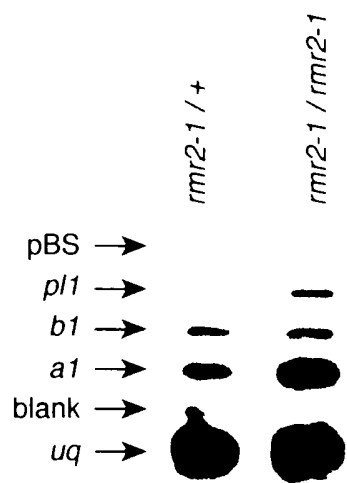


FIG._22A

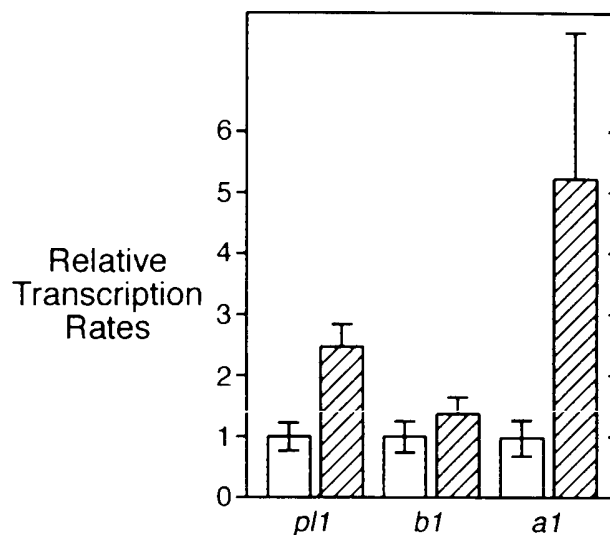


FIG._22B

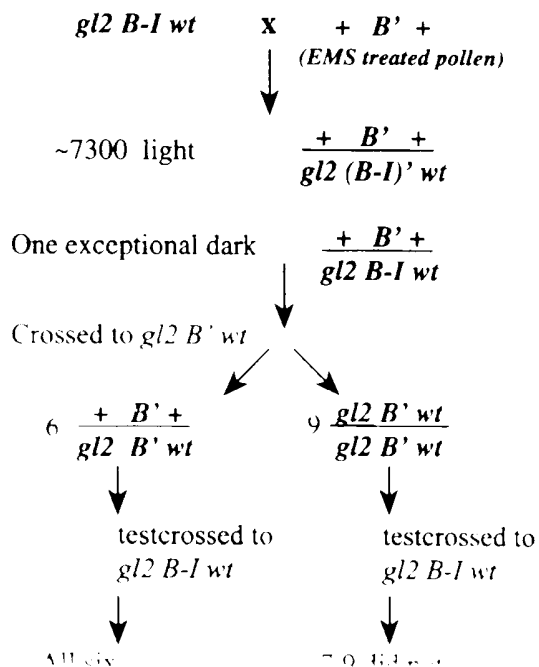


FIG._23

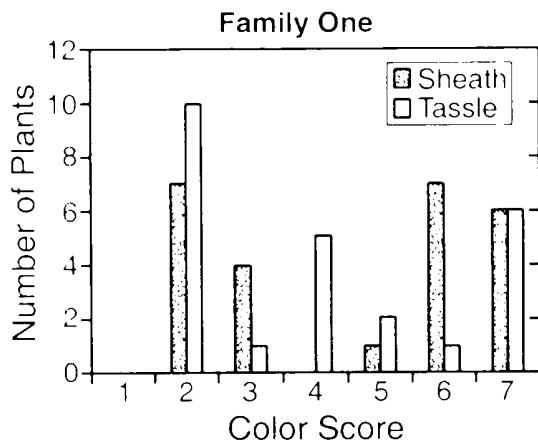


FIG._24A

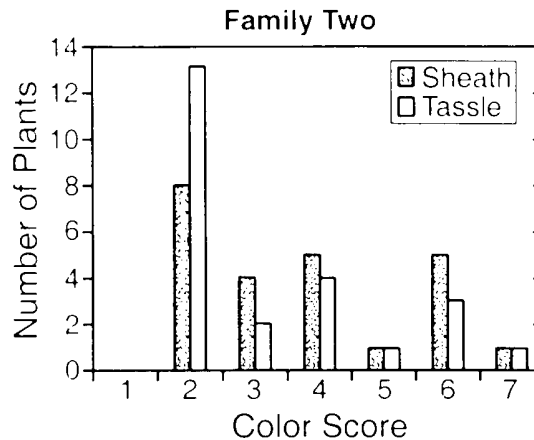


FIG._24B

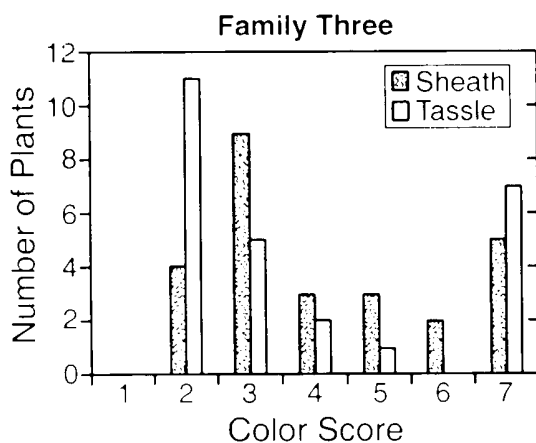


FIG._24C

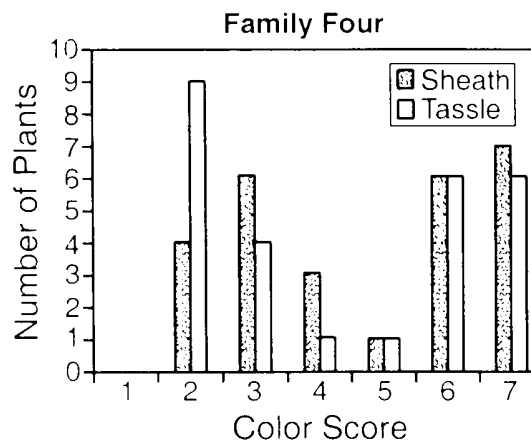


FIG._24D

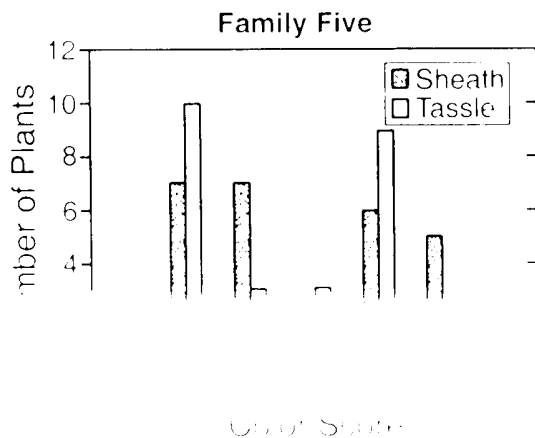


FIG._24E

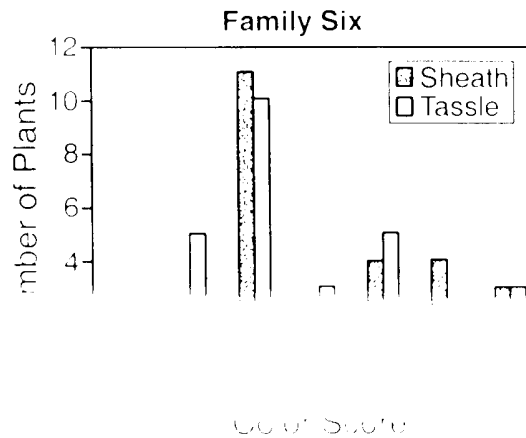


FIG._24F

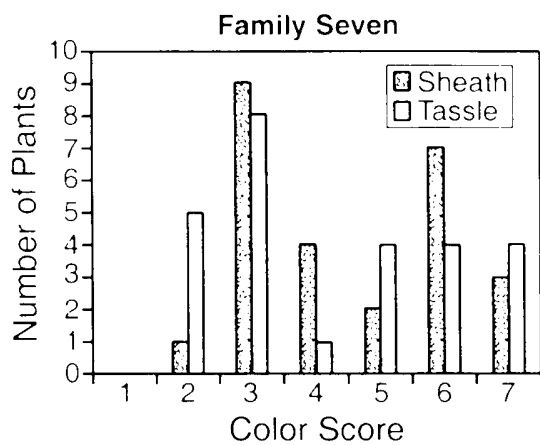


FIG._24G



FIG._24H

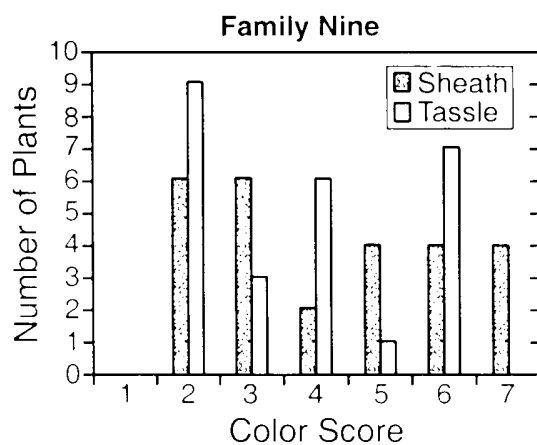


FIG._24I



FIG. 25B

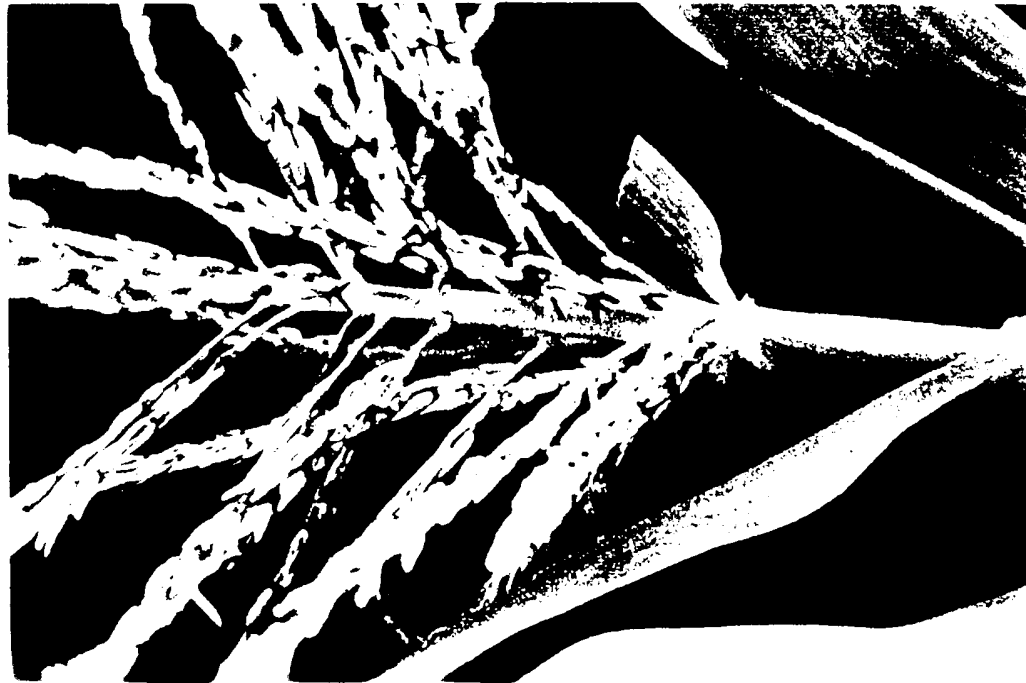


FIG. 25A

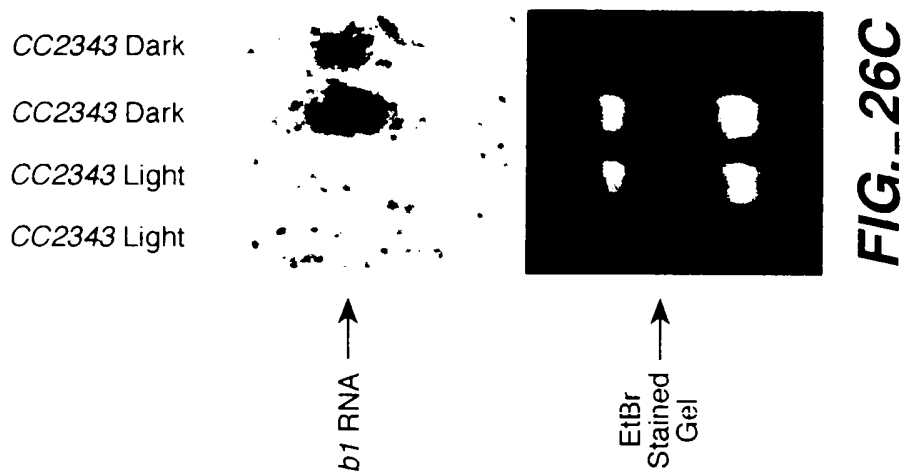


FIG._27A



FIG._27B



FIG._27C



FIG._27D



FIG._27E



FIG._27F



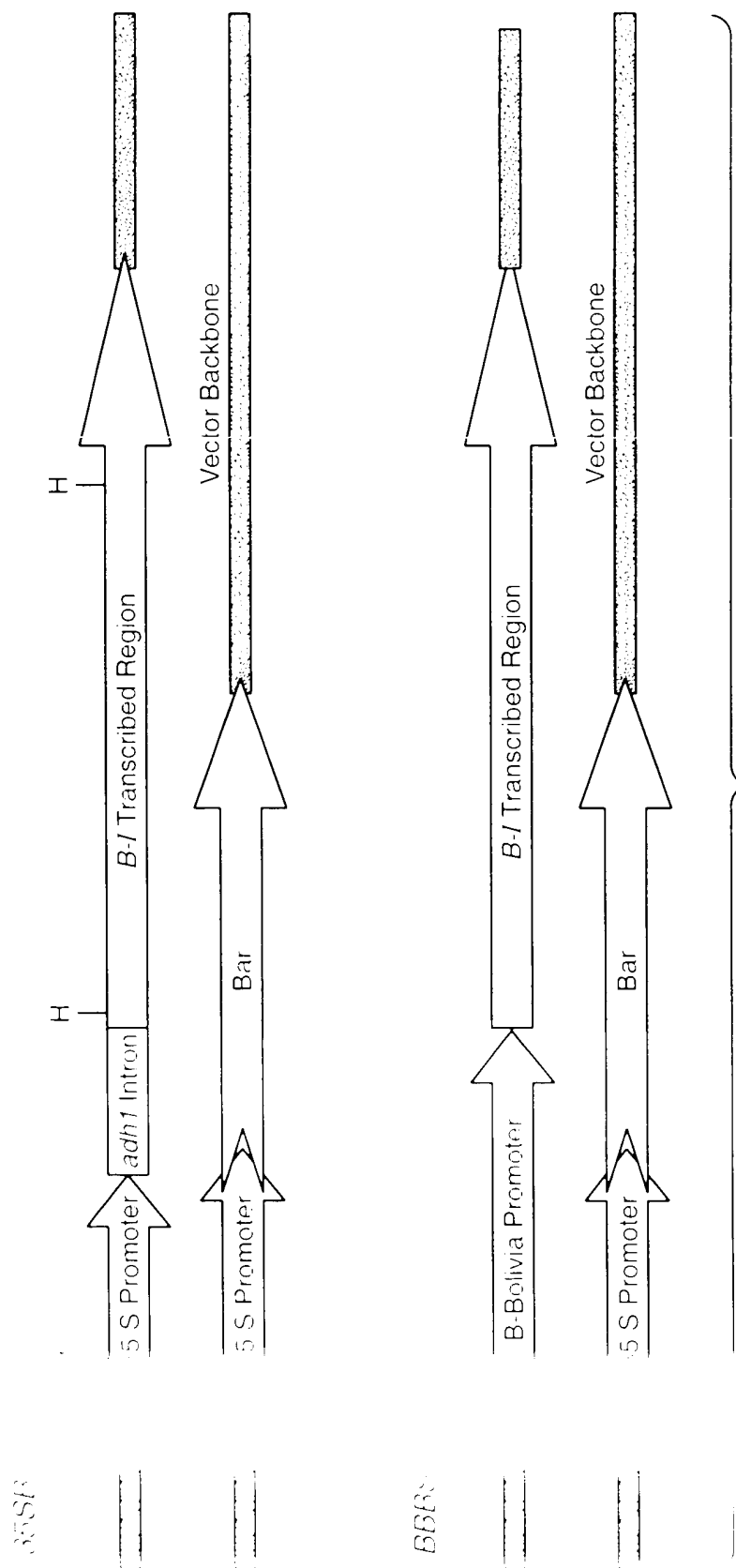


FIG._29A



B' Mop2-1 / mop2 B' Mop2-1 / Mop2-1
35SB-I

FIG._29B



rmr2-1 / rmr2-1 Rmr2 / rmr2-1
35SB-I

FIG._29C

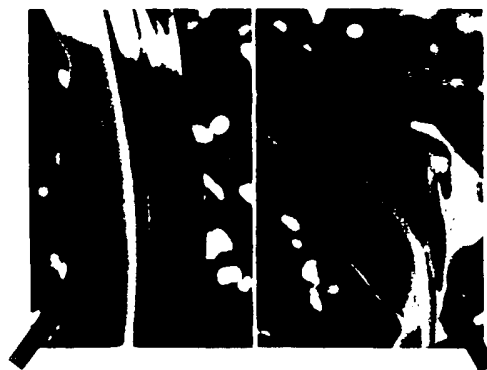


B' mop1-1 / mop1-1 B' Mop1 / mop1-1
35SB-I

FIG._29D

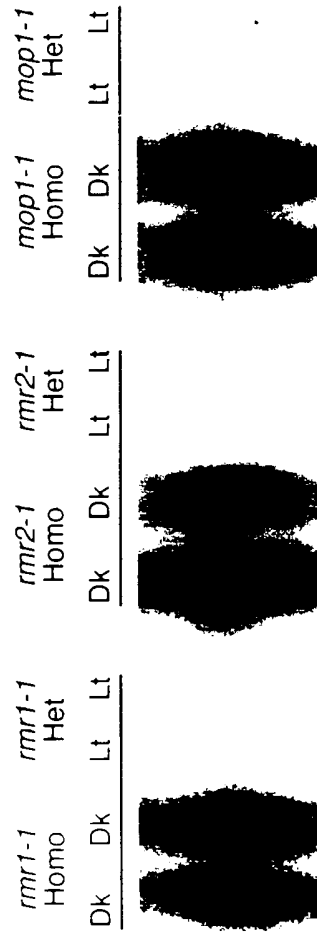


rmr1-1 / rmr1-1 Rmr1 / rmr1-1
35SB-I

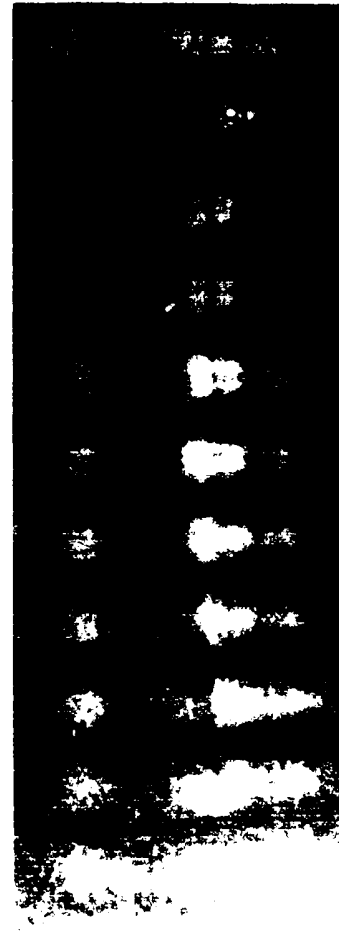


Rmr2 / rmr2-1 *rmr2-1 / rmr2-1*
BBBS

FIG._29E



3 →



stained
Gel

FIG._30

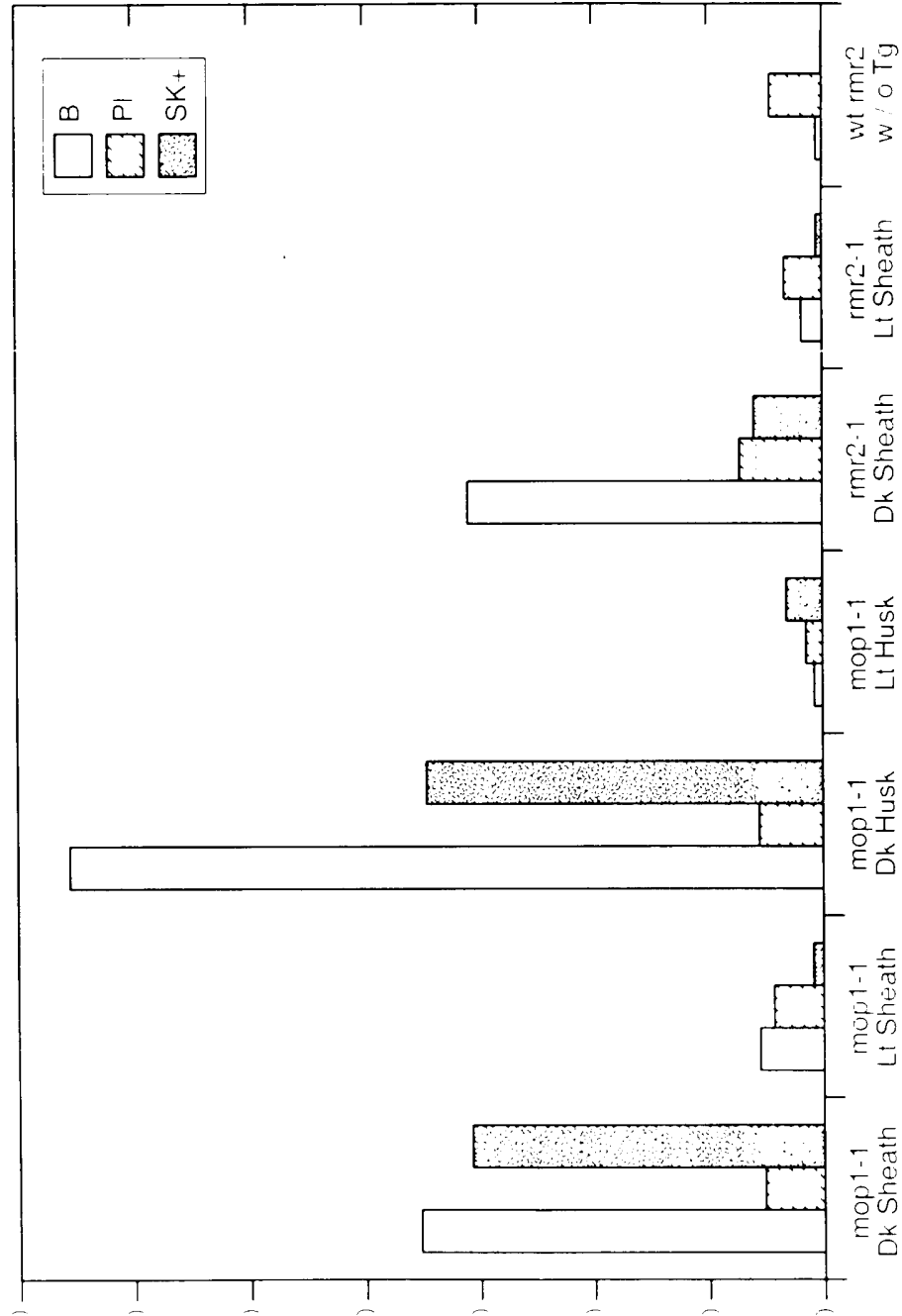


FIG._31

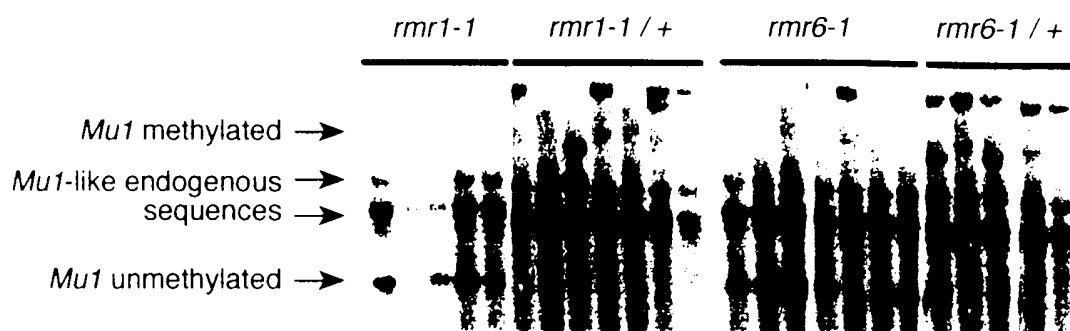


FIG._32A

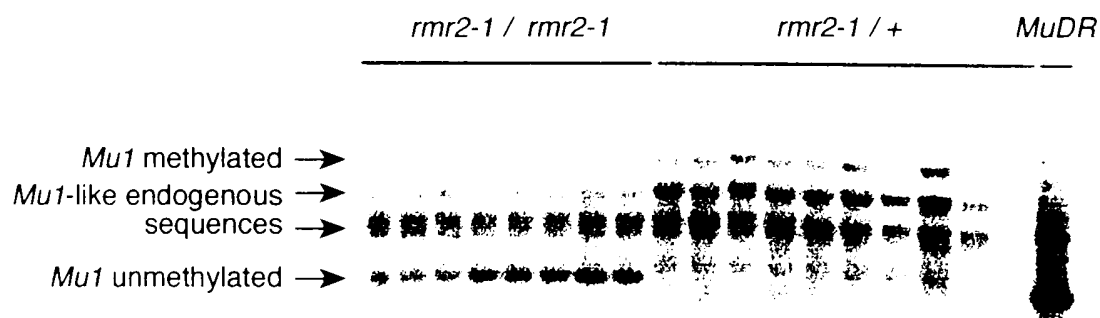


FIG._32B

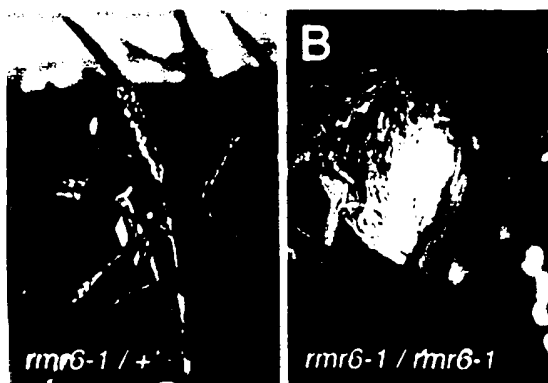


FIG._33A FIG._33B

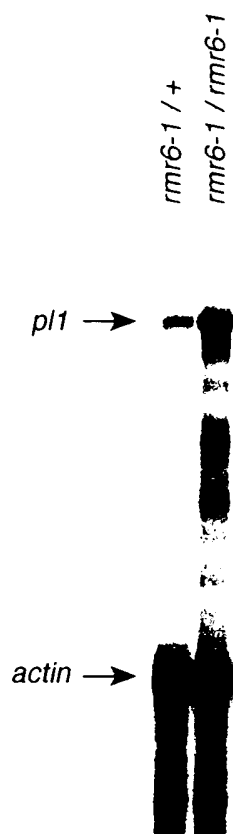


FIG._34A

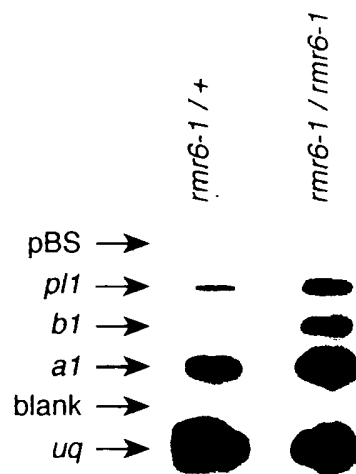


FIG._34B

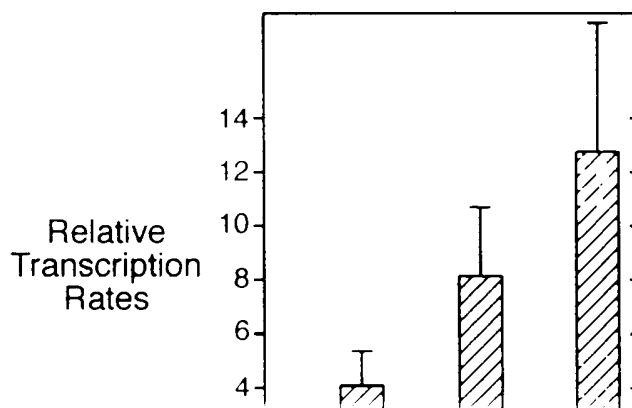


FIG._34C